

## ΠΕΡΙ ΤΗΣ ΕΠΙΣΤΗΜΗΣ ΤΗΣ ΙΑΤΡΙΚΗΣ

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ΕΠΙΣΤΗΜΗΣ ΤΗΣ ΙΑΤΡΙΚΗΣ: to be "a leader to the Greeks and a despot to the barbarians, to look after the former as after friends and relatives, and to deal with the latter as with beasts or plants" ΕΠΙΣΤΗΜΗΣ ΤΗΣ ΙΑΤΡΙΚΗΣ

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ΕΠΙΣΤΗΜΗΣ ΤΗΣ ΙΑΤΡΙΚΗΣ [2] ΕΠΙΣΤΗΜΗΣ ΤΗΣ ΙΑΤΡΙΚΗΣ

leukotomy 1930s 1940s 1950s 1960s 1970s 1980s 1990s 2000s 2010s 2020s

## Leukotomy

Leukotomy 1930s 1940s 1950s 1960s 1970s 1980s 1990s 2000s 2010s 2020s

1 personalities mental diseases

2 leukotomy leukotomy

3 personality intelligence Walter Freeman personality intelligence [3]

personality intelligence personalities mental diseases personality intelligence personality intelligence personality intelligence

personality intelligence personalities mental diseases personality intelligence

Leukotomy 1930s 1940s 1950s 1960s 1970s 1980s 1990s 2000s 2010s 2020s

Turing Test Nature AlphaGo Zero superhuman superhuman generic human

Leukotomy Nature AlphaGo Zero superhuman peer review Peer review [4]

leukotomy

## AlphaGo Zero Superhuman

Nature AlphaGo Zero AlphaGo Zero superhuman performance superhuman generic human superhuman

AlphaGo Zero AlphaGo Master superhuman generic superhuman game

game superhuman

AlphaGo Zero 超human 能力  
AlphaGo Zero 能力

AlphaGo Zero 超human 能力

Deepmind [5]

AlphaGo Master AlphaGo Master AlphaGo Master  
AlphaGo Zero AlphaGo Master AlphaGo Master

AlphaGo Zero AlphaGo Master AlphaGo Zero [6]  
AlphaGo Master 16 AlphaGo Zero 18  
AlphaGo Zero 14 16 45

1 Nature Magazine AlphaGo Deepmind AlphaGo Zero  
AlphaGo Master

2) AlphaGo Zero local trap  
AlphaGo Zero superhuman

AlphaGo Zero AlphaGo Master AlphaGo Master  
AlphaGo Master AlphaGo Master [7] Nature  
AlphaGo Zero AlphaGo Master deep-learning  
AlphaGo Master

AlphaGo Zero [8] superhuman  
AlphaGo Zero

AlphaGo generic human Deepmind  
AlphaGo AlphaGo  
AlphaGo AlphaGo

AlphaGo AlphaGo [9]

Turing Machine AlphaGo  
AlphaGo Zero AlphaGo  
Master AlphaGo Zero AlphaGo Zero

□□□□□□:“Go gaming is strictly defined within a very small space. Industrial automations are typically designed in well controlled environments, but not strictly defined. Car driving is regulated, but the environment is not well controlled”□

SAE level 5  
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Gu Test A Progressive Measurement Of Generic Artificial Intelligence

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[REDACTED] [14]

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[16] [ ]
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1. 在自然语言处理中，词嵌入（word embeddings）是一种将单词映射为高维向量的方法。这种表示方法能够捕捉单词之间的语义关系，并且在许多任务中表现出色。

2. 词嵌入的生成通常依赖于大规模语料库的统计信息。常见的生成方法包括 GloVe、Word2Vec 和 FastText。

3. 词嵌入在机器翻译、文本分类和推荐系统等领域有着广泛的应用。

4. 除了词嵌入，还有句嵌入（sentence embeddings）和段落嵌入（paragraph embeddings）等更高层次的表示方法。

5. 在自然语言处理中，模型的性能往往与所使用的嵌入质量密切相关。

6. 词嵌入的维度选择也是一个重要的超参数，需要根据具体任务进行调整。

7. 近年来，随着预训练模型的发展，词嵌入的生成变得更加自动化和高效。

8. 在中文处理中，词嵌入同样发挥着重要作用，尤其是在机器翻译和文本分类任务中。

9. 词嵌入的可视化可以帮助我们理解模型学到的语义关系，例如通过向量差来捕捉类比关系。

10. 除了传统的词嵌入，近年来还出现了基于图结构的嵌入方法，能够更好地捕捉单词之间的复杂关系。

11. 在自然语言推理（NLI）任务中，词嵌入是构建模型的基础组件之一。

12. 词嵌入的生成过程通常涉及到对大规模文本数据的分布式表示学习。

13. 在自然语言处理中，词嵌入的更新和微调也是模型训练的重要组成部分。

14. 词嵌入的生成方法不断演进，以适应不同规模和类型的自然语言数据。

15. 词嵌入的研究仍在继续，未来有望进一步提升模型的语义理解能力。

16. 在自然语言处理领域，词嵌入已经成为不可或缺的基础技术之一。

17. 词嵌入的生成和优化对于提高自然语言处理模型的性能至关重要。

18. 随着深度学习的发展，词嵌入的生成方法也在不断创新，为自然语言处理提供了更强的支持。







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The Development of Liberal Arts and Sciences

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[1] AI: A Modern Approach  
“Aristotle... was the first to formulate a precise set of laws governing the rational part of the mind.”(On page 5)

Wind Tunnel approach

[2]

[3] Leucotomy in England and Wales, 1942-1954 9284 41  
28 25 2 4

personality intelligence 25  
personality intelligence clinical condition 41  
28 clinical condition personality intelligence

leucotomy

Renato M.E. Sabbatini Even lobotomy's preponents admitted that only one third of the operated patients would improve, while one-third remained the same, and one-third got worst  
Leucotomy in England and Wales, 1942-1954 <http://www.cerebromente.org.br/n02/historia/lobotomy.htm>

one third would improve one-third remained the same clinical condition personality intelligence

personality intelligence leucotomy BRAIN Initiative

[4]

peer review  
peer review

AlphaGo Zero 超human 通用 human AlphaGo Zero

[5] 破解 Go Deep Blue AlphaGo AlphaGo

[6] <http://www.alphago-games.com/> AlphaGo Zero AlphaGo Zero <https://www.101weiqi.com/chessbook/player/38348/>

[7] AlphaGo Master AlphaGo Master

[8] <http://www.alphago-games.com/> Full Strength of Alphago Zero, i.e. Final Form 40 Blocks 20 Blocks Not Full Strength of Alphago Zero Alphago Zero

[9]

AlphaGo Google AlphaGo AlphaGo Zero AlphaGo Human level artificial intelligence AlphaGo

[10] Universal approximation theorem Turing Machine

[11] In God We Trust God Trust

In Math We Trust In Math We Trust

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[17] 1819 Ferdinand Schweikart

1830

Ferdinand Schweikart

[18] [REDACTED]. [REDACTED] “[REDACTED]”

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[19] [\[19\]](#)

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wikipedia

[20] [REDACTED]

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